



32ND Annual USN-USMC Spectrum Management Conference



Fleet Electronic Warfare Center (FEWC)



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Director, FEWC
8 Mar 2011

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Overview

- **NAVCYBERFOR / C10F ADCON / OPCON**
- **EW Readiness Improvement Team Surge Ops**
- **IFF Symposium**
- **Best Practices to Obtain IFF Spectrum Supportability**
- **EMS Operations**
- **“What Keeps Me Up At Night”**

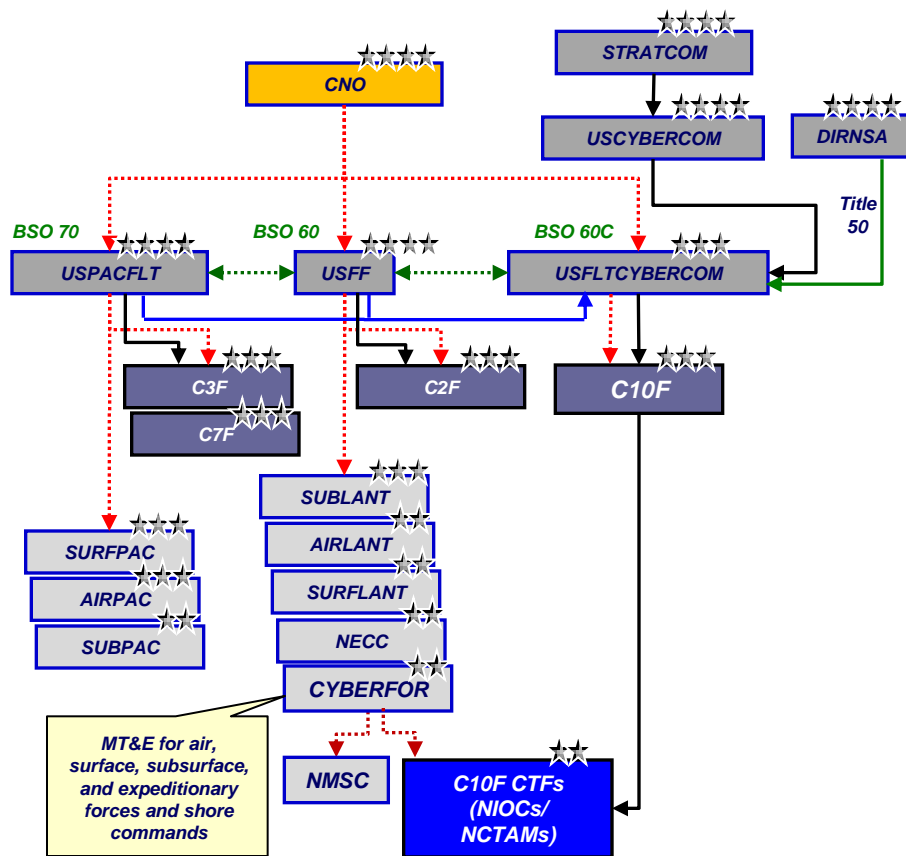
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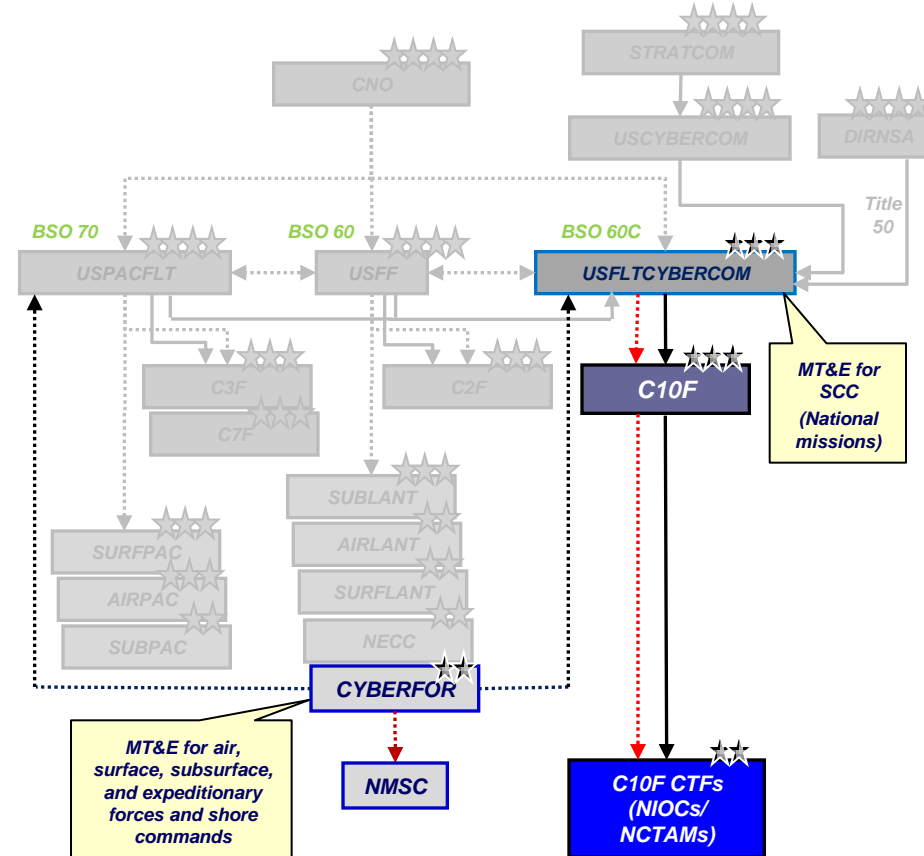
ADCON & OPCON Relationships NCF / C10F



Original



Realigned



ADCON OPCON/Service Employment — Supported / Supporting — Coordination Authority SCC Mission / Title 50 —

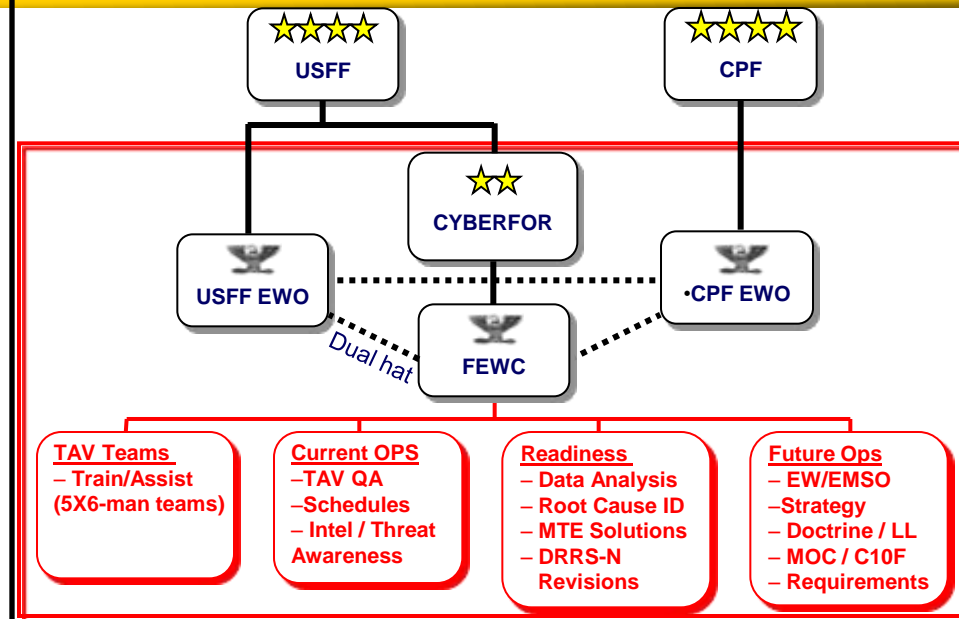
NMSC remains ADCON to NAVCYBERFOR / FEWC



EW Readiness Improvement Team (EWRIT) Surge Operations

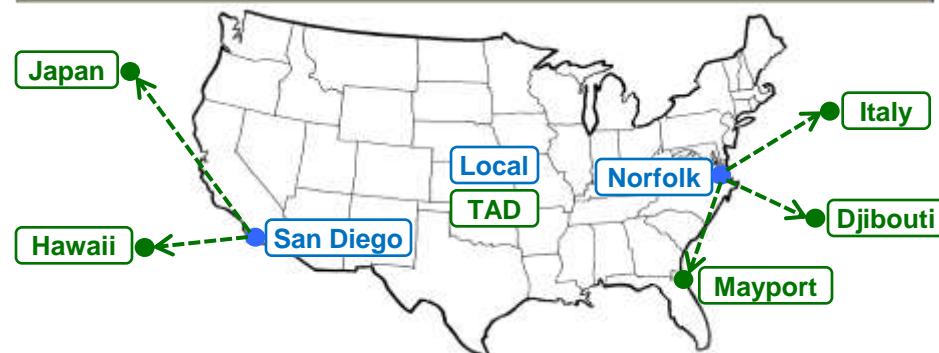


- **Training and Assist Visits (TAVs)**
 - Goal: 100 ships in 120 days
 - Training and education
 - Evaluate, identify, aggregate and correct systemic issues
 - Completed 28 Jan 11

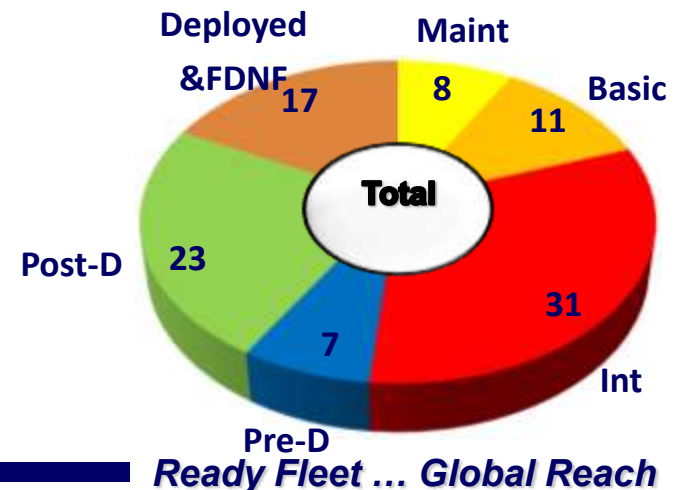


TAVs Completed: 97

C2F:59 C3F:21 C5F:1 C6F:1 C7F:15



TAVs Complete Across the FRTF





EWRI TAV

Electromagnetic Spectrum Operations

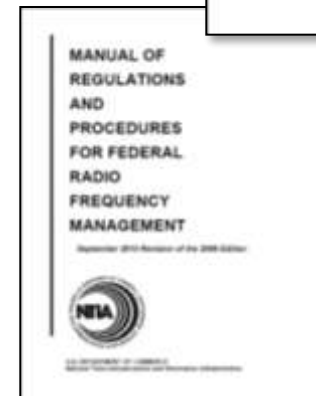


- **Ships with personnel who received formal training on AESOP (2301, ICMC, etc) were more likely to use the application.**
- **All of the surveys resulted in ships asking about or wanting more training on EMSO. Some of the responses:**
 - **USS GEORGE HW BUSH – “Attend a 2-3 day class using a spectrum analyzer testing the different frequency bands”**
 - **USS WASP – “More classroom training on the basics of spectrum management and communication planning”**
 - **USS MITSCHER – “.....would like to see spectrum management in more training opportunities.....it is essential to operations onboard”**



Navy IFF Symposium

- Held 19-20 Jan at Wyle Aerospace Group, Lexington Park, MD
- Hosted by OPNAV N2/N6, NAVAIR, NAVSEA and FEWC
- Symposium Purpose : Bring together DoN IFF PMs and NMSC to discuss Spectrum Certification Application (DD-1494) and frequency assignment business processes and requirements delineated in:
 - OPNAVINST 2400.20F (“ELECTROMAGNETIC ENVIRONMENTAL EFFECTS (E3) AND SPECTRUM SUPPORTABILITY POLICY AND PROCEDURES” - Jul 2007)
 - NTIA Manual (“MANUAL OF REGULATIONS AND PROCEDURES FOR FEDERAL RADIO FREQUENCY MANAGEMENT” - Sep 2010)
- Results:
 - “Best Practices Message” to assist DON IFF PM and Spectrum Management (SM) support personnel to better understand business processes for:
 - DD-1494 application
 - NTIA Manual frequency assignment





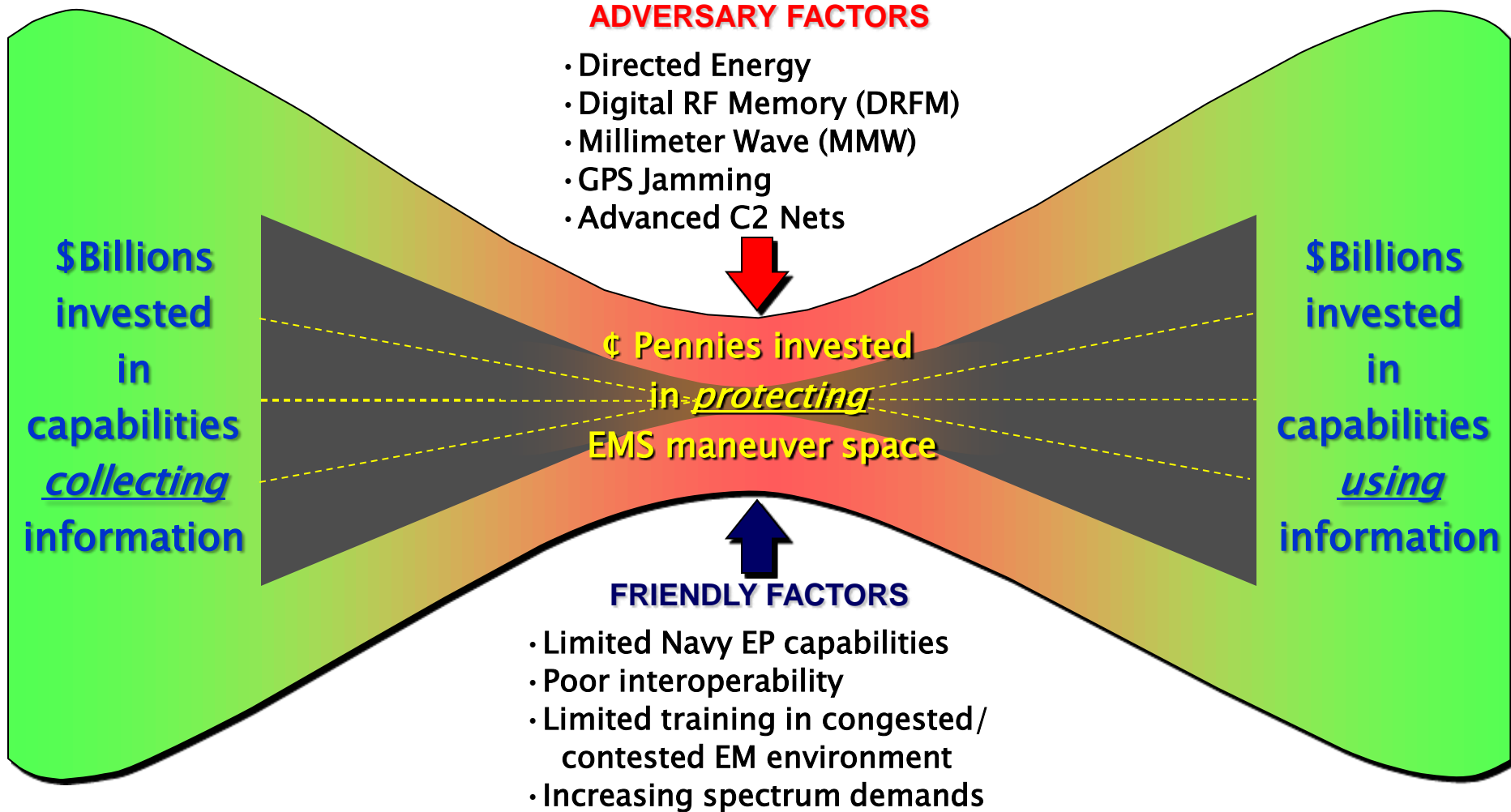
Best Practices Message to Obtain IFF Spectrum Supportability



- Released as NAVMARSPECCEN 041314Z MAR 11
- Responsibilities:
 - NMSC – DoN agent for processing all DD-1494 applications and frequency assignment proposal requirements
 - DoN CIO / OPNAV N2N6 / HQMC C4 / NMSC – Only DoN offices authorized to directly engage NTIA / federal agencies (FAA, FCC, etc.) on national level spectrum supportability or frequency assignment matters
- Message includes best practice business process tips for:
 - Spectrum certification / Frequency assignment / NTIA
- NMSC POCs:
 - NMSC Collective distribution: navyspectrum.fct@navy.mil
 - Spectrum Certification: Ms. Thu Luu - thu.a.luu@navy.mil / 703-325- 2838
 - Frequency Assignments: Ms. Elvira Pearce – elvira.pearce@navy.mil / 703-325-2822
 - Regional NMCSO POCs: <https://www.portal.navy.mil/cyberfor/n47/n45/spectrummanagement/default.aspx/>



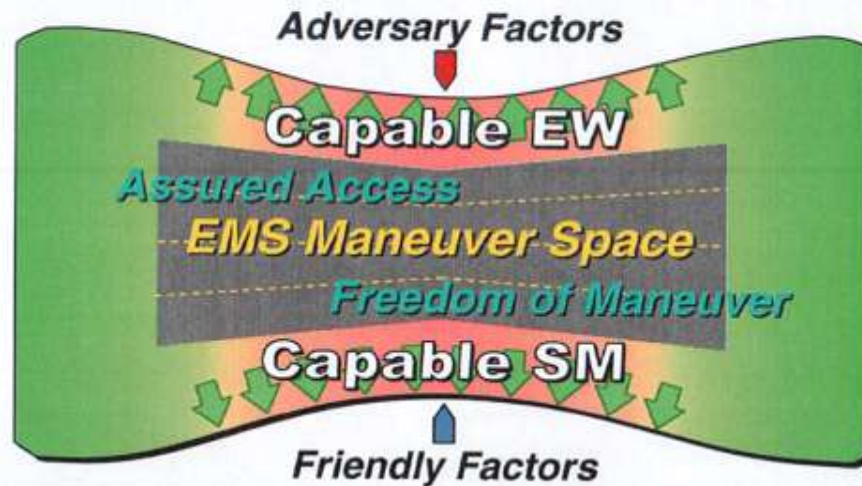
EMS Warfare Integral to Information Dominance



Viewing traditional EW in broader EMS Warfare concepts



Challenges to EMS Maneuver Space



EMSO delivers both capable EW and capable Spectrum Management



“What Keeps Me Up At Night”



- **Ship Self Defense**
- **Broadband selloff operational impacts**
- **Budget squeeze**
- **NMSC move to Ft. Meade**



Questions?

